

What is it called when heat is transferred through *mixing* of fluids with different temperatures (such as warm surface water and cold, deeper water)

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When heat is transferred between objects in direct contact (like a spoon in hot soup).

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The form of energy that can travel through empty space (such as between the sun and the earth).

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Light comes in from the sun and heats the Earth's surface. What happens next is called the greenhouse effect. Draw this and label:

- greenhouse gases
- longwave radiation
- re-radiated longwave radiation

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Explain how the ozone layer is different from smog.

Include the words:

- stratosphere
- troposphere
- shortwave radiation
- pollution

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Explain how the ozone hole is different from greenhouse effect.

Include the words:

- CFCs
- carbon dioxide (CO<sub>2</sub>)
- Pollution
- stratosphere
- troposphere
- temperature
- greenhouse gases
- good thing
- bad thing

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Archimedes principle states that, when an object floats, it pushes aside ("displaces") an amount of material in the fluid equal to its own \_\_\_\_\_.

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Archimedes principle states that, when an object floats, it pushes aside ("displaces") an amount of material in the fluid equal to its own MASS!

The *density of ice is less than water*, so it takes up more space and floats. Therefore, some of it sticks above the water!

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Melting of \_\_\_\_\_ will cause sea level to rise, but melting of \_\_\_\_\_ will not.

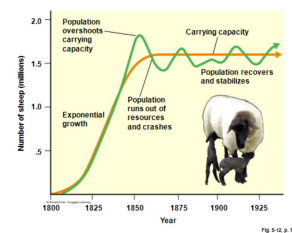
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If CFCs "destroy" ozone, where does its mass go??

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Glaciers NEVER flow uphill. Instead, they recede (*appearing* to flow uphill) when \_\_\_\_\_ is greater than \_\_\_\_\_.

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What is the carrying capacity of sheep in this environment?

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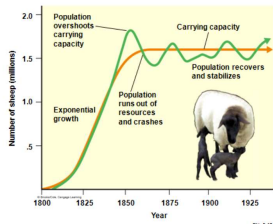


Fig. 5-12, p. 111

Between what years did the sheep population experience:

- 1) a crash?
- 2) J-curve growth
- 3) S-curve growth

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What is succession and which type is more common?

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Primary succession begins in an area with \_\_\_\_\_ soil, whereas secondary succession begins in an area that already has \_\_\_\_\_ but has experienced \_\_\_\_\_.

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What is "logistic" or "exponential" population growth? Graph what that looks like.

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What is "logistic" or "exponential" population growth? Graph what that looks like.

THE J-CURVE PART OF THIS:

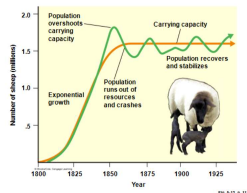


Fig. 5-12, p. 111

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Explain what factors have changed the birthrate and death rate of the human population to allow for the quickening doubling-time of the human population.

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**Explain TWO factors have changed the birthrate and death rate of the human population to allow for the quickening doubling-time of the human population.**

- 1) More babies live into adulthood**
- 2) People live longer**
  - Improved medicine**
  - Improved sanitation**
- 3) Exponential population growth**

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**List THREE negative impacts of human population growth:**

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**List THREE negative impacts of human population growth:**

- 1) Fewer resources per person**
- 2) Conflict and competition over resources**
- 3) Extinctions of other species**
- 4) Pollution (air, water, land, light, noise)**
- 5) Land erosion**

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